



COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

☒ original.☐ design.

NOTE: With the exception of a supplemental oath or declaration submitted in a reissue, a supplemental oath or declaration is not treated as an amendment under 37 CFR 1.312 (Amendments after allowance). M.P.E.P. § 714.16, 7th Edition.

☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of the inventors named in the prior application.

☐ divisional.☐ continuation.

NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements — nonprovisional application).

☐ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Sample Holding Chuck For Use In Reactor And

Reactor Using Same

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OCT 15 2001
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SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b), or (c))

(a) ☐ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on 5/30/00, as ~~XX~~ Serial No. 09/580,695
or ☐ _____
and was amended on _____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456);

"(B) serial number and filing date;

"(C) attorney docket number which was on the specification as filed;

"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

M.P.E.P. § 601.01(a), 7th Ed.

(c) ☐ was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ (if any).

SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

(complete the following where a supplemental declaration is being submitted)

- ☐ I hereby declare that the subject matter of the
- ☐ attached amendment
 - ☐ amendment filed on _____

was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- ☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.

PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))

NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☒ no such applications have been filed.
- (e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
--(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

____ / _____
____ / _____
____ / _____

**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S)
UNDER 35 U.S.C. § 120**

- ☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART (C-I-P) APPLICATION.

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Manny W. Schechter (Reg. 31,722), Terry J. Haridi (Reg. 29,936), Christopher A. Hughes (Reg. 26,914), Edward A. Pennington (Reg. 32,388), John E. Hoel (Reg. 26,279), Joseph C. Redmond, Jr. (Reg. 18,733), Stephen C. Kaufman (Reg. 29,331), Jay P. Shrollini (Reg. 36,266), David M. Shoff (Reg. 39,833), Robert M. Trepp (Reg. 23,933), Louis P. Herzberg (Reg. 41,300), Daniel P. Morris (Reg. 32,053), Paul J. Osterstedt (Reg. 37,411), Louis J. Percello (Reg. 33,206) and Douglas W. Cameron (Reg. 31,396) and Wayne L. Fjlenbogen (Reg. 43,602).

(check the following item, if applicable)

- ☒ I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- ☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

NOTE: "Special care should be taken in continuation or divisional applications to ensure that any change of correspondence address in a prior application is reflected in the continuation or divisional application. For example, where a copy of the oath or declaration from the prior application is submitted for a continuation or divisional application filed under 37 CFR 1.53(b) and the copy of the oath or declaration from the prior application designates an old correspondence address, the Office may not recognize, in the continuation or divisional application, the change of correspondence address made during the prosecution of the prior application. Applicant is required to identify the change of correspondence address in the continuation or divisional application to ensure that communications from the Office are mailed to the current correspondence address. 37 CFR 1.63(c)(4)." § 601.03, M.P.E.P., 7th Edition.

SEND CORRESPONDENCE TO

☒ Address
Geza C. Ziegler, Jr.
Perman & Green, LLP
425 Post Road
Fairfield, CT 06430

DIRECT TELEPHONE CALLS TO: (Name and telephone number)

Geza C. Ziegler, Jr.
(203) 259-1800

☒ Customer Number 2512

(complete the following if applicable)

Since this filing is a ☐ continuation ☐ divisional there is attached hereto a Change of Correspondence Address so that there will be no question as to where the PTO should direct all correspondence.

(Declaration and Power of Attorney [1-1]—page 5 of 7)

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).

NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997.

Full name of sole or first inventor

Kenneth J McCullough
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature Kenneth J. McCullough
Date 8/31/01 Country of Citizenship USA
Residence Fishkill, NY
Post Office Address 5 Birchwood Drive, Fishkill, NY 12524

Full name of second joint inventor, if any

Wayne M Moreau
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature Wayne M. Moreau
Date 9/5/01 Country of Citizenship USA
Residence Wappingers Falls, NY
Post Office Address 10 Lydia Drive, Wappingers Falls, NY 12590

Full name of third joint inventor, if any

John R Simons
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature John R. Simons
Date August 30th, 2001 Country of Citizenship USA
Residence Wappingers Falls, NY
Post Office Address 51 DelBalso Blvd., Wappingers Falls, NY 12590

ADDED PAGE TO COMBINED DECLARATION AND POWER OF
ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Charles J Taft
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature *Charles J Taft*

Date 8/31/2001 Country of Citizenship USA

Residence Wappingers Falls, NY

Post Office Address 88 Brothers Road, Wappingers Falls, NY 12590

Full name of fifth joint inventor, if any

Raffaele Senese
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature *Raffaele Senese*

Date 8/30/01 Country of Citizenship USA

Residence Poughkeepsie, NY

Post Office Address 19 Darlene Drive, Poughkeepsie, NY 12601

Full name of sixth joint inventor, if any

GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

☒ **Signature** for fourth and subsequent joint inventors. Number of pages added
1

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added _____

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added _____

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

☐ Number of pages added _____

* * *

☐ Authorization of practitioner(s) to accept and follow instructions from representative.

* * *

(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)

☒ This declaration ends with this page.



Pra titioner's Desk t No. 950-009252-US(PAR)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFI E

In re application of: McCullough et al.

Application No.: 0 9 / 580,695 Group No.: 1764

Filed: 5/30/00

Examiner:

For: Sample Holding Chuck For Use In Reactor And
Reactor Using Same

Assistant Commissioner for Patents
Washington, D.C. 20231

ASSENT OF ASSIGNEE TO CORRECTION
AND/OR ADDITION OF INVENTOR(S)

International Business Machines Corporation

(type or print name of assignee)

Armonk, New York 10504

Address

Assignment

☐ recorded on _____

Reel _____

Frame _____

☒ recorded herewith

☐ A separate ☐ "ASSIGNMENT" (DOCUMENT) COVER SHEET is at-
tached.

or

☒ FORM PTO 1595 is attached.

Assignee hereby assents to the correction of inventorship filed

☒ herewith.

☐ on _____

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. § 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal
Service with sufficient postage as first class
mail in an envelope addressed to the
Assistant Commissioner for Patents,
Washington, D.C. 20231.

FACSIMILE

☐ transmitted by facsimile to the
Patent and Trademark Office.

Date: 10/9/01

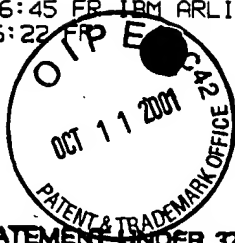
Signature

Elaine F. Mian

Elaine F. Mian

(type or print name f person certifying)

RECEIVED
OCT 15 2001
TECHNOLOGY CENTER 1700



ASSIGNEE STATEMENT

A "STATEMENT UNDER 37 C.F.R. § 3.73(b)" is attached.

Application No. 09/580,695

Filed: 5/30/00

For: Sample Holding Chuck For Use In Reactor And
Reactor Using Same

A handwritten signature in black ink, reading "Jeffrey L. Forman". The signature is written over a horizontal line.

Signature Jeffrey L. Forman

Program Manager, Patent Office Liaison

(Type or print name and title of person authorized to sign
on behalf of assignee)

(Assent of Assignee to Correction and/or Addition of Inventor(s) [P-23]—page 2 of 2)



LETTER OF AUTHORITY

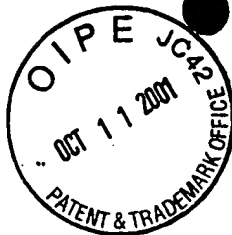
I, Gerald Rosenthal, Vice President, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations; and evidence of such assignments; request for the registration of patents as available for licensing; reports of inventions and petitions for waiver of patent rights to any department or agency of the United States Government; and, assignments, licenses and other instruments confirmatory of Government rights in patents and inventions, to Jeffrey L. Forman, Program Manager, Patent Office Liaison.

Date:

Aug 4, 2000

Gerald Rosenthal
Vice President, Intellectual Property & Licensing
International Business Machines Corporation

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OWNERSHIP AND ASSIGNMENT

324

PTO/USPS C-89

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 Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant: McCullough et al.Application No.: 09/580,695Filed: 5/30/00

Entitled: Sample Holding Chuck For Use In Reactor And Reactor Using Same
International Business
Machines Corporation • corporation

(Name of Assignee)

(Type of assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
 2. ☐ an assignee of an undivided part interest

In the patent application identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Real _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Real _____, Frame _____, or for which a copy thereof is attached.
2. From _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Real _____, Frame _____, or for which a copy thereof is attached.
3. From _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Real _____, Frame _____, or for which a copy thereof is attached.

- [] Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

September 20, 2001

Date

Jeffrey L. Forman
 Signature

Jeffrey L. Forman

Typed or printed name

Program Manager, Patent Office Liaison

Title

Notice: New Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual user. Any statement on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 24, 2000

PTAS

PERMAN & GREEN, LLP
DAVID AKER
425 POST ROAD
FAIRFIELD, CT 06430



RECEIVED

NOV 01 2000

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT PERMAN AND GREEN LLP

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/28/2000

REEL/FRAME: 011047/0152
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MCCULLOUGH, KENNETH J.

DOC DATE: 05/25/2000

ASSIGNOR:
MOREAU, WAYNE M.

DOC DATE: 05/25/2000

ASSIGNOR:
SIMONS, JOHN P.

DOC DATE: 05/24/2000

ASSIGNOR:
TAFT, CHARLES J.

DOC DATE: 05/25/2000

ASSIGNEE:
INTERNATIONAL BUSINESS MACHINES
CORPORATION
ARMONK, NEW YORK 10504

SERIAL NUMBER: 09580695
PATENT NUMBER:

FILING DATE: 05/30/2000
ISSUE DATE:

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OCT 15 2001
TECHNOLOGY CENTER 1100

011047/0152 PAGE 2

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Tab settings 000 ▼

To the Honorable Commissioner

3 attached original documents or copy thereof.

1. Name of conveying party(ies)

Kenneth J. McCullough

Wayne M. Moreau

John P. Simons

Charles J. Taft

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: International Business Machines Corporation

Internal Address: _____

Street Address: _____

City: Armonk State: NY ZIP: 10504

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

Document I.D. Number 101376944

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other _____

Execution Date: McCullough 5/25/00; Moreau 5/25/00;

Simons 5/24/00; Taft 5/25/00

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: McCullough 5/25/00;
Moreau 5/25/00; Simons 5/24/00; Taft 5/25/00

A. Patent Application No.(s)

09/580,695

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David Aker

Internal Address: Perman & Green, LLP

Street Address: 425 Post Road

City: Fairfield State: CT ZIP: 06430

6. Total number of applications and patents involved: 1

Any additional fees

7. ~~XXXXXX~~ (37 CFR 3.41).....\$ _____

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

16-1350

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David Aker

Name of Person Signing

David Aker

Signature

August 24, 2000

Date

Total number of pages including cover sheet, attachments, and document: 8

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

RECORDATION FORM COVER SHEET
PATENTS ONLY
06-09-2000

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings 000 ▼

To the Honorable Commissioner of:

1. Name of conveying party(ies):

Kenneth J. McCullough

Wayne M. Moreau

John P. Simons

Charles J. Taft

Additional name(s) of conveying party(ies) attached to this application ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other _____

Execution Date: 5/24/00; 5/25/00

attached original documents or copy thereof.

1 address of receiving party(ies)

Name: International Business Machines Corporation

Internal Address: _____

Street Address: _____

City: Armonk State: NY ZIP: 10504

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 5/24/00

A. Patent Application No.(s)

09/580695

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David Aker

Internal Address: Perman & Green, LLP

Street Address: 425 Post Road

City: Fairfield State: CT ZIP: 06430

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

06/07/2000 MPDPLES 00000054 09580695

03 FC 581 40.00 OP

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David Aker

Name of Person Signing

David Aker

Signature

May 30, 2000

Date

Total number of pages including cover sheet, attachments, and document: 6

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

Kenneth J. McCullough	5 Birchwood Drive Fishkill, NY 12524	USA
<i>(type or print name of inventors)</i>	<i>Address</i>	<i>Nationality</i>
Wayne M. Moreau	10 Lydia Drive Wappingers Falls, NY 12590	USA
John P. Simons	51 DelBalso Blvd. Wappingers Falls, NY 12590	USA
Charles J. Taft	88 Brothers Road Wappingers Falls, NY 12590	USA

hereby sells, assigns and transfers to
ASSIGNEE:
International Business Machines
Corporation

Armonk, New York 10504

(type or print name of ASSIGNEE)

Address

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☐ the entire right, title and interest
- ☐ an undivided _____ percent (____ %) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority
in and to any and all improvements which are disclosed in the invention entitled:
Sample Holding Chuck For Use In Reactor And Reactor
Using Same

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in (37 C.F.R. § 3.21)

- (a) ☒ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on _____
- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention
 - ☐ Express mail label no.: _____
Mailed: _____
 - ☐ To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☐ U.S. application no. _____ / _____ filed on _____
- (e) ☐ International application no. PCT _____ / _____ / _____
filed on _____
- (f) ☐ U.S. patent no. _____ issued _____
 - ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this

5/24/00

5/25/00

Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Kenneth J. McCullough

(type name of inventor)

Wayne M. Moreau

John P. Simons

Charles J. Taft

Signature of INVENTOR

Kenneth J. McCullough
Wayne M. Moreau
John P. Simons
Charles J. Taft

☐ Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 U.S.C. § 261. Use next page if notarization is desired.

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

Details of Country _____

and place of signing of assignment _____

Yorktown Heights, N.Y.

Before me this 24th day of May, 2000, personally appeared the above named individual(s), to me known to be the person(s) who ☐ is ☐ are described in, and who executed the foregoing assignment instrument and acknowledged to me that

☒ he☐ she☐ they

executed the same of

☒ his☐ her☐ their

own free will for the purpose therein expressed.

Emily S. Forbes

Notary Public or Consular Officer of the
United States of America

EMILY S. FORBES

Notary Public, State of New York

No. 01F04935185

Qualified in Westchester County

Commission Expires July 25, 2000

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

Details of Country _____
and place of signing of assignment EAST FISHKILL, NY

Before me this 25th day of MAY 192000, personally appeared the above named individual(s), to me known to be the person(s) who ☐ is ☒ are described in, and who executed the foregoing assignment instrument and acknowledged to me that

☐ he

☐ his

☐ she

executed the same of

☐ her

☒ they

☒ their

own free will for the purpose therein expressed.

Linda L. Gray
Notary Public or Consular Officer of the
United States of America

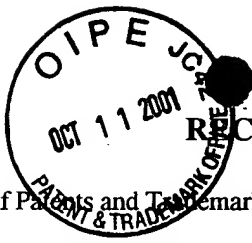
LINDA L. GRAY
Notary Public, State of New York
No. 01GR5012090
Qualified in Dutchess County
Term Expires: 06/15/01

CERTIFICATE OF MAILING

I hereby certify that the attached correspondence is being deposited with the United States Postal Service as first class mail on the date shown below in an envelope addressed to: U.S. Patent and Trademark Office, Assignment Division, Box Assignments, CG-4, 1213 Jefferson Davis Highway, Suite 320, Washington, DC 20231.

Carm Narsi
Name of Person Making Deposit

8/24/00
Date



RECORDATION FORM COVER SHEET PATENTS ONLY

Commissioner of Patents and Trademarks, Washington, D.C. 20231

Please record the attached document

1. Name of conveying party(ies): Kenneth J. McCullough Wayne M. Moreau John P. Simons Charles J. Taft Raffaele Senese Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: International Business Machines Corporation Address: City: Armonk State: NY Country: Us Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 8/31/01, 9/5/01, 8/30/01, 8/31/01, 8/30/01, respectively		ZIP Code: 10504 RECEIVED OCT 11 2001 TELEPHONIC CENTER 1100	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s): 09/580,695 filed 5/30/00 B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Geza C. Ziegler, Jr., Esq. Address: Perman & Green 425 Post Road City: Fairfield State: CT ZIP Code: 06430-6232		6. Total number of applications and/or patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account 8. Deposit account number: <u>50-0510</u>	
DO NOT USE THIS SPACE			
9. Statement And Signature: <p style="text-align: center;"><i>To the best of my knowledge and belief the foregoing information is true and correct and, the attached document is either an original document or a true copy of the original document.</i></p> <div style="display: flex; justify-content: space-between;"> <div> <u>Geza C. Ziegler, Jr.</u> Name of Person Signing </div> <div style="text-align: center;"> Signature </div> <div> <u>10/9/01</u> Date </div> </div> <div style="text-align: right;"> Total number of pages including cover sheet(s): Page 1 of 1. </div>			

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
950-009252-US(PAR)

This is an Assignment of the following rights, title and interest: (check all that apply):

- ☒ *United States of America rights, title and interest in the invention*
☒ *Foreign rights, title and interest in the invention*
☒ *United States Patent Application Serial No. 09/580,695*

Date of Execution: _____ *Date of Filing:* 5/30/00

- ☐ *United States Provisional Patent Application Serial No.* _____
☐ *United States Patent No(s).* _____
☐ *International (PCT) Patent Application Serial No.* _____
☐ *Other (specify)* _____

Title of the Invention

SAMPLE HOLDING CHUCK FOR USE IN REACTOR AND REACTOR USING SAME

RECEIVED
OCT 15 2001
TECHNOLOGY CENTER 1700

Inventors (assignors)

Name	Address
Kenneth J. McCullough	5 Birchwood Drive, Fishkill, NY 12524
Wayne M. Moreau	10 Lydia Drive, Wappingers Falls, NY 12590
John P. Simons	51 BelBalso Blvd., Wappingers Falls, NY 12590
Charles J. Taft	88 Brothers Road, Wappingers Falls, NY 12590
Raffaele Senese	19 Darlene Drive, Poughkeepsie, NY 12601

Assignee

Name	Address
International Business Machines Corporation	Armonk, New York 10504

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
950-009252-US(PAR)

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signature/Date
Kenneth J. McCullough	Kenneth J. McCullough 8/31/01
Wayne M. Moreau	Wayne M. Moreau 8/31/01
John P. Simons	John P. Simons 8/30/01
Charles J. Taft	Charles J. Taft 8/31/01
Raffaele Senese	Raffaele Senese 8/30/01